

# CS 112-Assignment-2

Due Date: 28 February 2022  
Group Size Maximum 1 Student

## Statement

Write your own definition of the following eight functions. Note: No built-in function to be used.

<b>char *Mystrncpy( char *s1, const char *s2 );</b>	Copies the string <b>s2</b> into the character array <b>s1</b> . The value of <b>s1</b> is returned.
<b>char *Mystrncpy( char *s1, const char *s2, size_t n );</b>	Copies at most <b>n</b> characters of the string <b>s2</b> into the character array <b>s1</b> . The value of <b>s1</b> is returned.
<b>char *Mystrcat( char *s1, const char *s2 );</b>	Appends the string <b>s2</b> to the string <b>s1</b> . The first character of <b>s2</b> overwrites the terminating null character of <b>s1</b> . The value of <b>s1</b> is returned.
<b>char *Mystrncat( char *s1, const char *s2, size_t n );</b>	Appends at most <b>n</b> characters of string <b>s2</b> to string <b>s1</b> . The first character of <b>s2</b> overwrites the terminating null character of <b>s1</b> . The value of <b>s1</b> is returned.
<b>int Mystrcmp( const char *s1, const char *s2 );</b>	Compares the string <b>s1</b> with the string <b>s2</b> . The function returns a value of zero, less than zero or greater than zero if <b>s1</b> is equal to, less than or greater than <b>s2</b> , respectively.
<b>int Mystrncmp( const char *s1, const char *s2, size_t n );</b>	Compares up to <b>n</b> characters of the string <b>s1</b> with the string <b>s2</b> . The function returns zero, less than zero or greater than zero if <b>s1</b> is equal to, less than or greater than <b>s2</b> , respectively.
<b>char *Mystrtok( char *s1, const char *s2 );</b>	A sequence of calls to <b>strtok</b> breaks string <b>s1</b> into “tokens”—logical pieces such as words in a line of text—delimited by characters contained in string <b>s2</b> . The first call contains <b>s1</b> as the first argument, and subsequent calls to continue tokenizing the same string contain <b>NULL</b> as the first argument. A pointer to the current token is returned by each call. If there are no more tokens when the function is called, <b>NULL</b> is returned.
<b>size_t Mystrlen( const char *s );</b>	Determines the length of string <b>s</b> . The number of characters preceding the terminating null character is returned.

## Submission Guidelines:

- Submit your work at CMS
- Name of the file should be A2\_<yourRollNumber>, two points will be deducted for not following file naming convention.
- -50% credit for plagiarism (cheating) and an **F** in the course. We *will not tolerate* any cheating.